

Minutes of the TITAN meeting

June 24, 2010

Present: Jens, Ernesto, Martin, Mel, Matt, Usman, Benjamin, Vanessa, Aaron, Thomas Stephan

Martin Simon just arrived in Vancouver and is about to start at TITAN.

RFQ (Ernesto)

- Box for switch box is almost ready. The design is delayed because the box needed to be ordered. Ernesto is not sure about the time line but will follow it up.
- The emittance measurements are ongoing. A problem is the ISEG HV that does not reach 0V and is rather unprecise in the range needed between 0 and 20V.
- Aaron instructed Tim to use Rick bartmans code to calculate the emittance.
- Mel and Stephan changed the ion source from Cs to a K source.
- Ernesto is working on the 20kV tune to the MPET and will finish tuning by the end of the week.
- PSD and RFQ:Q4+5 tripped during tuning without any explanation.
- The RFQ manual is almost ready.
- Ernesto's poster is on the way.

EBIT (Aaron)

- No updates. Aaron helped Ernesto and Tim with the emittance measurement.
- Martin will start whenever he is settled.
- Martin developed a plan during his last stay that he will follow.

CPET (Vanessa)

- Vanessa and Benjamin are planning to take a look at the GSI switches.
- Gerald's input is needed in order to purchase MCPs and to send the trap electrodes to get them gold plated. Vanessa tries to get his input before the INPC.
- For the switches they are thinking of using TRIUMF switches instead of the GSI ones.

CPET (Benjamin)

- Benjamin is trying to get the GSI switch unit working. There are several issues but the technician at GSI is very helpful. A special connector needs to be built in order to communicate with the unit. Tests of the unit will start as soon as the communication is established.
- Benjamin is checking the pricing for the gold plating with Ivar.

CPET (Usman)

- Simion is coming along. Max sent the magnetic field map of the MPET that will be scaled to fit the CPET.
- Usman will try to get the e- beam shape as flexible as possible. The idea came up to add an extraction electrode.
- He will either use 2keV or 3keV as electron beam energy.

CEPET (Spencer)

- Spencer is helping Stephan and Mel with the re-assembly of the MEPT. He also showed Benjamin how to fill the CPET.

MPET (Stephan)

- Stephan and Mel started pumping las Friday and the vacuum went down 1 to $e-8$ instantly.
- Monday the MCPs were installed and pumping started again.
- A small leak was found and fixed. This morning the pressure was at $5e-9$ but the ion pump was outgassing. The gate valve to the ion pump was closed and the pressure dropped instantly.
- All the MIDAS and EPICS interlocks are fine now and the MPET is ready to take beam again.
- After venting the detection cross section of the MPET the pressure went down within 24 hrs. This is roughly the time it takes to be back in business after the MCPs get exchanged.
- Currently, on is in the time line and ready to take beam to test the new setup and MCPs.
- Stephan will order more power supplies to have one for each of the new lenses. The changed geometry makes this necessary.
- Max is running simulations on the new geometry.
- New proposals for the EEC are $21C$ (Stephan), $48Ar$ (Max and Dave) and heavy Cd from Herve.

TITAN-EC (Thomas)

- BNG arrived. Thomas is planning to write an REA for the installation of the BNG in the beam line.
- Matthias Kirsch from Struck will be in Vancouver during the INCP. A meeting with him is anticipated and Corinna will also be asked to join.